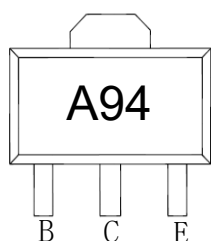
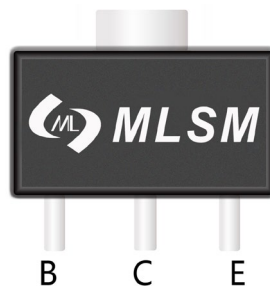


Features

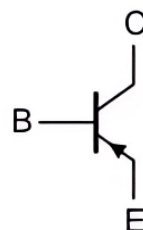
- High voltage



Marking and pin assignment



SOT-89-3L top view



Schematic diagram



Pb-Free



Halogen-Free

Maximum Ratings (Ta=25°C unless otherwise noted)

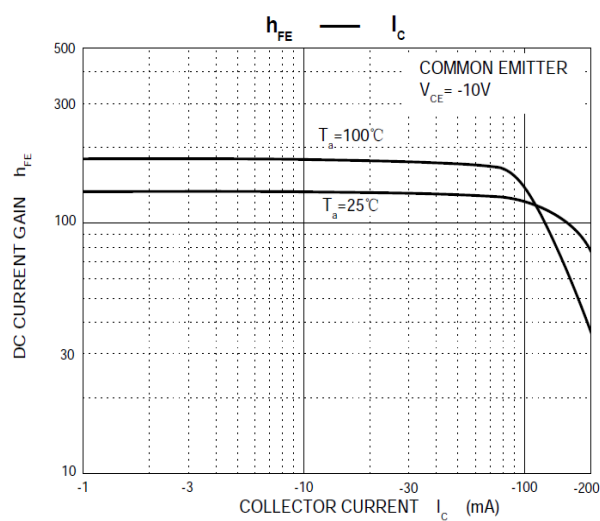
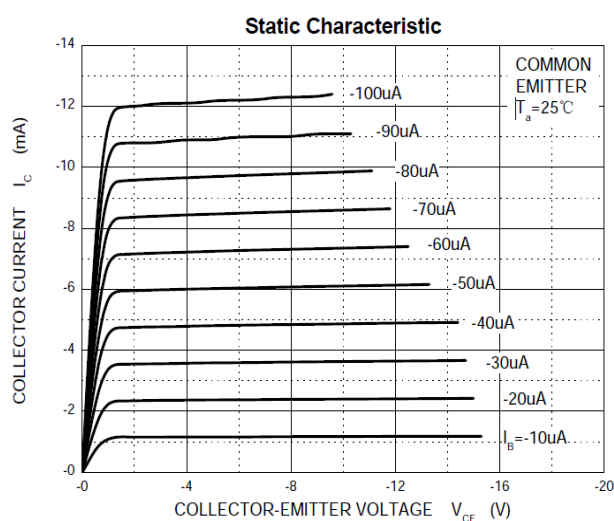
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-400	V
V_{CEO}	Collector-Emitter Voltage	-400	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-0.2	A
I_{CM}	Collector Current -Pulsed	-0.3	A
P_C	Collector Power Dissipation	0.5	W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

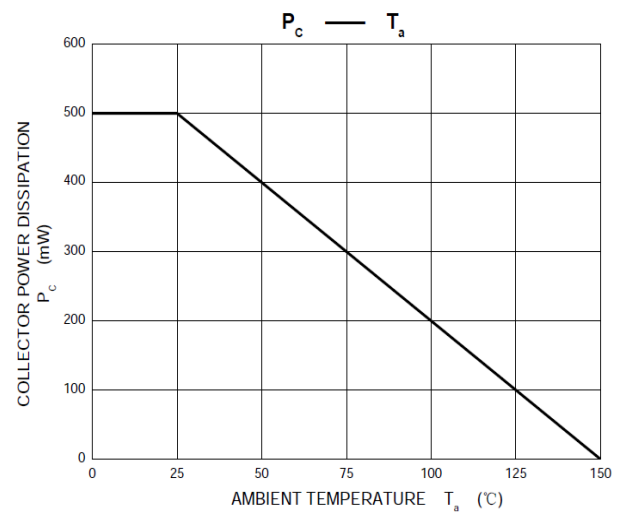
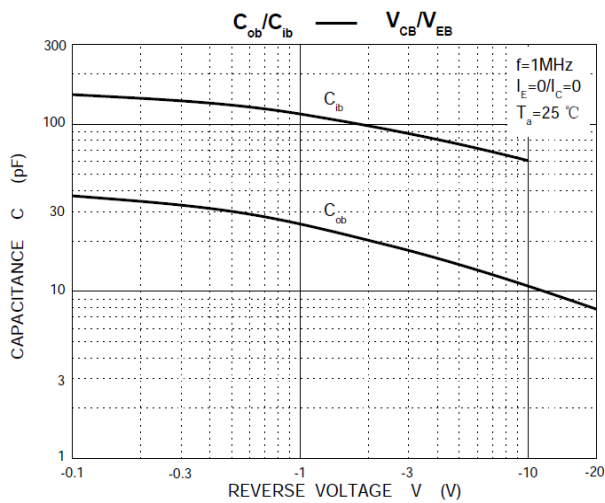
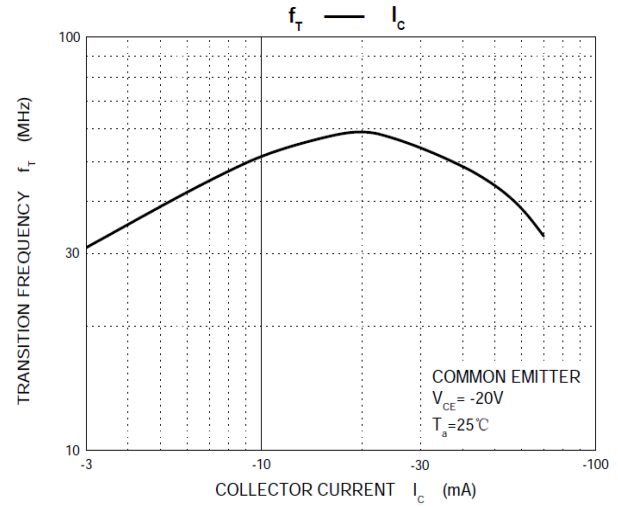
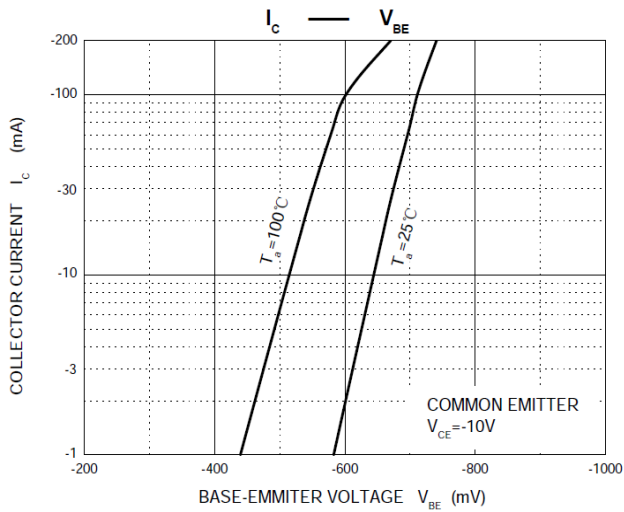
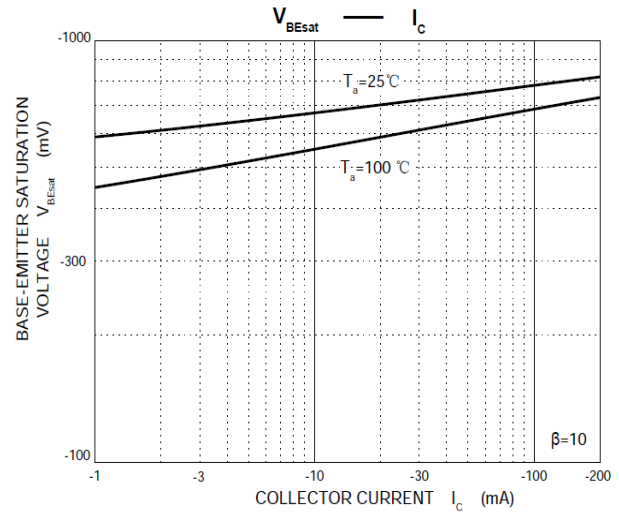
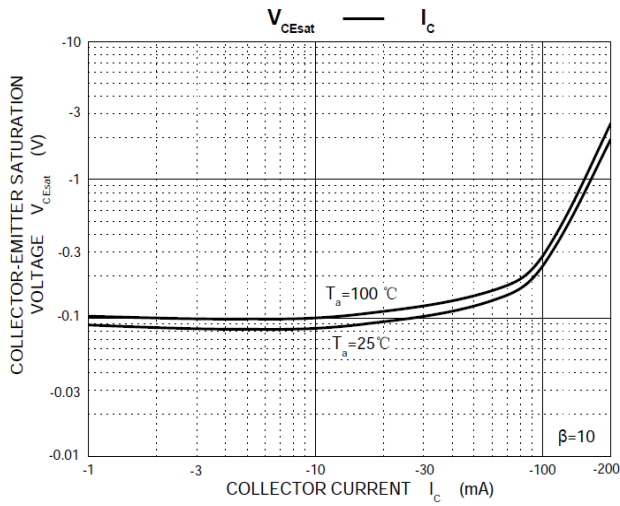
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
A94	SOT-89-3L	A94	1,000	10,000	40,000	7" reel

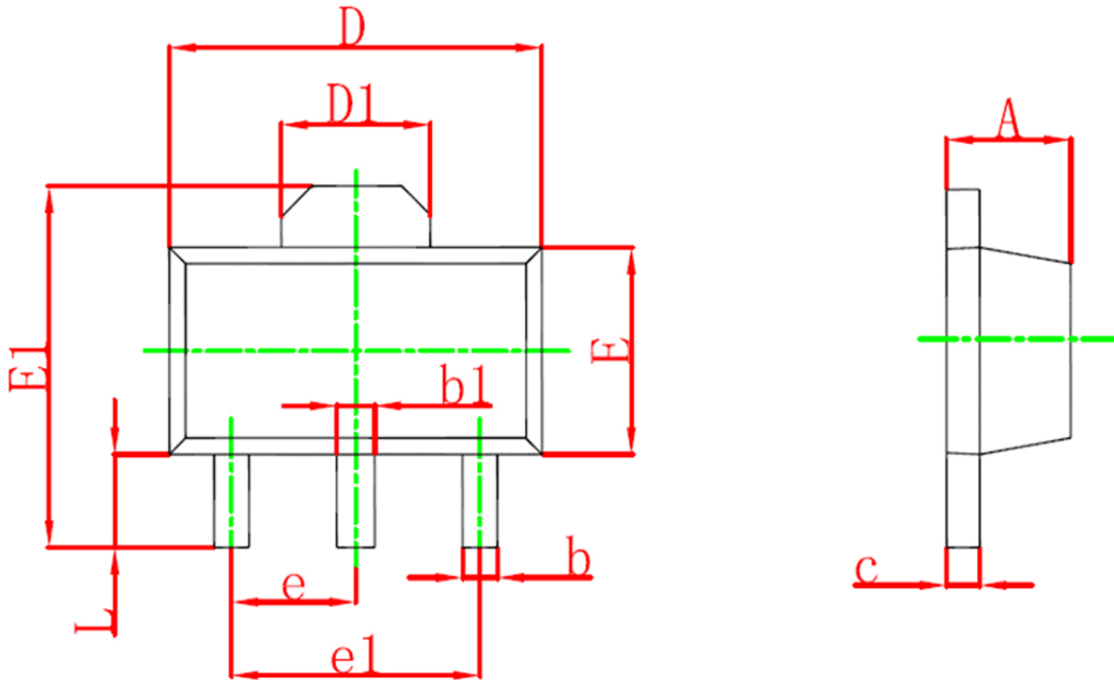
Electrical Characteristics (Ta=25°C unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=-100\mu A, I_E=0$	-400	--	--	V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=-1mA, I_B=0$	-400	--	--	V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=-100\mu A, I_C=0$	-5	--	--	V
I_{CBO}	Collector cut-off current	$V_{CB}=-400V, I_E=0$	--	--	-0.1	μA
I_{CEO}	Collector cut-off current	$V_{CE}=-400V, I_B=0$	--	--	-5	μA
I_{EBO}	Emitter cut-off current	$V_{CE}=-4V, I_C=0$	--	--	-0.1	μA
$H_{FE(1)}$	DC current gain	$V_{CE}=-10V, I_C=-10mA$	80	--	300	
$H_{FE(2)}$		$V_{CE}=-10V, I_C=-1mA$	70	--	--	
$H_{FE(3)}$		$V_{CE}=-10V, I_C=-100mA$	60	--	--	
$H_{FE(4)}$		$V_{CE}=-10V, I_C=-50mA$	80	--	--	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=-10mA, I_B=-1mA$	--	--	-0.2	V
		$I_C=-50mA, I_B=-5mA$	--	--	-0.3	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C=-10mA, I_B=-1mA$	--	--	-0.75	V
f_T	Transition frequency	$V_{CE}=-20V, I_C=-10mA, f=30MHz$	50	--	--	MHz

Typical Characteristics




SOT-89-3L Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions in Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.500 REF		0.061 REF	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP		0.060 TYP	
e1	3.000 TYP		0.118 TYP	
L	0.900	1.200	0.035	0.047